IN THE CLAIMS:

Please cancel claims 2-7 and 10-24 without prejudice.

Please amend the claims as follows:

1.   (currently amended) A real-time computer-based viewing system comprising:

a database of ~~pre-existing~~ software objects, wherein at least one of said software objects corresponds to a physical structure which is to be viewed by said system;

a ~~real-time~~ sensor for acquiring <u>real-time</u> data about said physical structure when said physical structure is located within that sensor's data acquisition field, wherein said sensor is capable of being moved about relative to said physical structure;

~~generating means for generating a real-time software object corresponding to said physical structure using data~~ <u>an additional software object incorporating real-time data</u> acquired by said sensor;

registration means for positioning said ~~real-time~~ <u>additional</u> software object in registration with said ~~pre-existing~~ software objects ~~contained~~ <u>stored</u> in said database<u>, the registration being a function of the position of the sensor vis-à-vis the physical structure</u>; and

processing means for generating an image from said software objects contained in said database, based upon a specified point of view.

Claims 2-7 (canceled)

8.   (original) A system according to claim 1 wherein said real-time sensor comprises an endoscope.

9.   (currently amended) A system according to claim 1 wherein said <u>at least one of said software objects corresponds to</u> ~~physical structure~~ ~~comprises~~ an interior anatomical structure.

Claims 10-24 (canceled)

25.   (new) <u>A system according to claim 1 wherein said real-time sensor comprises an ultrasound probe.</u>

26.   (new) <u>A system according to claim 1 wherein the physical structure is located within the interior of a complex machine.</u>

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